

FORTHCOMING PUBLICATIONS (A)

NOVEMBER 2000, Vol. 74, No. 6

Rapid Communications

Single-ion magnetic anisotropy and dipolar interactions in geometrically frustrated pyrochlore $\text{Dy}_2\text{Ti}_2\text{O}_7$

Y M JANA AND D GHOSH

On the effect of heat treatment on thin films of lead vapour—deposited on Si (100) substrate

S BHAUMIK AND S P SEN GUPTA

Condensed Matter & Materials Physics

Microindentation studies of some III–V compound alloys

R NAVAMATHAVAN, D ARIVUOLI, G ATTOLINI AND C PELOSI

Numerical study of two dimensional disordered systems in an external magnetic field

DEBNARAYAN JANA

Structural and optical properties of polypropylene – talc composites

S J AHMED, J KHANAM, F U Z CHOWDHURY AND A H BHUIYAN

Photoresponse of thermally evaporated CdTe and ZnTe thin films

PRADIP KR KALITA, B K SARMA AND H L DAS

The optical absorption in single crystals of In_xMoSe_2 ($0 \leq x \leq 1$)

A M VORA AND P K GARG

IR spectroscopy, magnetic susceptibility, Mössbauer and a.c. resistivity of Co–Zn ferrite

M A AHMED, E H EL-KHAWAS, M Y HASSAN AND M-ELDESOKY

Spin glass like behaviour of a mixed-metal molecule-based magnetic material : $\text{NBu}_4\text{Co}^{\text{II}}$ $[\text{Fe}^{\text{III}}_{0.5}\text{Cr}^{\text{III}}_{0.5}(\text{ox})_2]$, $\text{Bu}_4 = n\text{-(C}_4\text{H}_9)_4$ ox = oxalate

A BHATTACHARJEE, R FEYERHERM AND M STEINER

$(\text{Pb}_{1-x}\text{Y}_x)(\text{Zr}_{0.6}\text{Ti}_{0.4})_{1-x/4}\text{O}_3$: their X-ray, SEM, thermal and dielectric studies

S R SHANNIGRAHI, R N P CHOUDHARY AND H N ACHARYA

Crystal and molecular structure of *N*-(*p*-dimethylamino)benzylidene-3-chloro-4-fluoro-aniline

K V ARJUNA GOWDA, M K KOKILA, PUTTARAJA, M V KULKARNI,

J SHASHIDHARA PRASAD AND N C SHIVAPRAKASH

Study of kinetic and thermodynamic parameters for the dislocation etch-pits on anthracene single crystal cleavages

R M VAISHNAV, L K MANIAR, M J JOSHI AND R M DABHI

Nuclear Physics

Investigation of two-particle azimuthal correlations of target fragments from ^{12}C -Emulsion interactions at 4.5 A GeV

DIPAK GHOSH, ARGHA DEB, ASOK KUMAR MALLICK AND RANJAN SENGUPTA

Particle Physics

Up and down dynamical quark masses from structure functions

RANJITA DEKA AND D K CHOUDHURY

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Scattering of a dyon from a dyonium

P C PANT, V P PANDEY AND B S RAJPUT

Notes

Thermoluminescence in $\text{PbO-Al}_2\text{O}_3\text{-B}_2\text{O}_3$ glasses doped with certain rare earth ions

M RAMI REDDY, P YADGIRI REDDY, S BANGARU RAJU AND N VEERAIHAH

Empirical relations for the field dependence of electron mobility in II-VI compound semiconductors

P S MALICK AND D MUKHOPADHYAY

Growth and characterization of a new metallorganic crystal : antimony thiourea bromide

S GOVINDA BHAT AND S M DHARMAPRAKASH

Analysis of temperature dependence of elastic constants and bulk modulus of MgO at high temperatures

MADAN SINGH, P P SINGH, M KUMAR AND B R K GUPTA